

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method for removing the 3'-untranslated region of a population of DNA molecules, wherein each DNA molecule in said population of DNA molecules comprises an open reading frame and a 3'-untranslated region, said method comprising:

(a) providing a population of DNA molecules, each of said DNA molecules terminating at its 5'-end in a 3' DNA chain overhang upstream of the open reading frame and at its 3'-end in a blunt end downstream of the open reading frame, wherein each of said DNA molecules is double-stranded; and

(b) treating each of said DNA molecules first with an exonuclease III and then with a single-stranded nuclease under conditions that allow removal of said 3'-untranslated region, wherein the sequential treatment of said DNA molecules with the exonuclease III and the nuclease specifically removes the 3'-untranslated region from the 3' end downstream of the open reading frame.

2. (Canceled)

3. (Original) The method of claim 1, wherein said nuclease is Mung bean nuclease.

4. (Original) The method of claim 1, wherein step (b) further results in removal of the stop codon of said open reading frame.

5. (Original) The method of claim 1, wherein each of said DNA molecules is a cDNA produced by reverse transcription from an mRNA sequence.

6. (Original) The method of claim 1, wherein said population comprises at least 10 DNA molecules.

7. (Original) The method of claim 1, wherein said population comprises at least 10^2 DNA molecules.

8. (Original) The method of claim 1, wherein said population comprises at least 10^3 DNA molecules.

9. (Original) The method of claim 1, wherein said population comprises at least 10^4 DNA molecules.

10. (Original) The method of claim 1, wherein said population comprises at least 10^5 DNA molecules.

11. (Original) The method of claim 1, wherein said population comprises at least 10^6 DNA molecules.